

CLAIMS

1. Modified ceramic formulations that essentially include conventional ceramic formulations made of a ceramic mold with a base of oxide mixtures in varying proportions; these are identified by the addition of metals, metal mixtures and non-oxidizing metal alloys with fusion points of greater than 1100° C and a granulometry less than 100 microns.
- 10 2. Modified ceramic formulations, as per Claim 1, identified by the aforementioned ceramic molds that are made of 50-70% (p/p) SiO₂ and 15-25% (p/p) Al₂O₃ where the rest is composed of iron oxides, calcium, sodium, potassium, titanium, barium, magnesium and zinc in different proportions.
- 15 3. Modified ceramic formulations, as per Claim 2, identified by the aforementioned ceramic molds optionally including colorant oxides, soluble salts or pigments.
- 20 4. Modified ceramic formulations, as per Claim 1, identified by including said metals in percentages of between 5% and 85% of the total weight of the final modified formulation.
- 25 5. Procedure for the manufacture of ceramic parts with metallic effects, identified by the application of any of the modified ceramic formulation of Claims 1 and 4, upon the ceramic part to be decorated, followed by the firing of the piece in an industrial furnace and subsequent grinding treatment of the ceramic part produced.
- 30 6. Procedure as per Claim 5, identified by said ceramic piece is used for the construction selected between a ceramic tile for ceramic floor tiling, ceramic paneling and roofing tiles.

7. Procedure as per Claim 5, identified by the application of the aforementioned modified ceramic formulation upon the ceramic piece through dry or wet methods.
- 5

8. Procedure as per Claim 5, identified by the aforementioned firing process of between 900 and 1300° C for firing times of between 30 minutes and 3 hours.
- 10

9. Ceramic pieces with a metallic effect, identified by producing them using any of the procedures described in Claims 5 through 8.
- 15

10. Ceramic parts as per Claim 9, identified by their production and being selected from among ceramic tiles for paneling and floor tiling with metallic effects.
- 20

11. Ceramic parts as per Claim 10, identified by the aforementioned metallic effects having shiny, reflective, texture and metallic appearance characteristics.
- 25

12. Use of modified ceramic formulations described in Claims 1 and 4 for the manufacture of ceramic parts with metallic effects.
- 30

13. Use as per Claim 12, identified by the aforementioned ceramic parts being used for construction selected from among ceramic tiles with metallic effects for flooring, paneling or roofing.
- 35

14. Use as per Claim 13, identified by the aforementioned metallic effects having shiny, reflective, texture and metallic appearance characteristics.